

## CLAIMS

What is claimed is:

- 1           1.     An apparatus comprising:
- 2           a server to couple to a client device having speech recognition functionality; and
- 3           an acoustic model adaptor locatable at the server to adapt an acoustic model for
- 4           the client device.
- 1           2.     The apparatus of claim 1, wherein the client device is a mobile
- 2           computing device.
- 1           3.     The apparatus of claim 1, wherein the server is coupled to the client
- 2           device through a network.
- 1           4.     The apparatus of claim 1, wherein the client device includes local
- 2           memory to store digitized raw speech data.
- 1           5.     The apparatus of claim 1, wherein the client device includes local
- 2           memory to store extracted speech feature data.
- 1           6.     The apparatus of claim 1, wherein the acoustic model adaptor of the
- 2           server receives digitized raw speech data when there is a network connection between
- 3           the client device and the server.
- 1           7.     The apparatus of claim 1, wherein the acoustic model adaptor of the
- 2           server receives extracted speech feature data when there is a network connection
- 3           between the client device and the server.

1           8.     The apparatus of claim 1, wherein the acoustic model adaptor of the  
2 server adapts the acoustic model for the client device based upon at least one of  
3 digitized raw speech data or extracted speech feature data received from the client  
4 device when there is a network connection between the client device and the server.

1           9.     The apparatus of claim 8, wherein the server stores the adapted acoustic  
2 model.

1           10.    The apparatus of claim 8, wherein the client device downloads and  
2 stores the adapted acoustic model.

1           11.    A method comprising:  
2           storing a copy of an acoustic model for a client device having speech  
3 recognition functionality;  
4           receiving speech data from the client device; and  
5           adapting the acoustic model for the client device.

1           12.    The method of claim 11, wherein the client device is a mobile  
2 computing device.

1           13.    The method of claim 11, wherein a server stores the acoustic model for  
2 the client device and the client device couples to the server through a network such that  
3 the server receives the speech data from the client device.

1           14.    The method of claim 11, wherein the client device includes local  
2 memory to store digitized raw speech data.

1           15.     The method of claim 11, wherein the client device includes local  
2 memory to store extracted speech feature data.

1           16.     The method of claim 11, wherein the speech data includes digitized raw  
2 speech data.

1           17.     The method of claim 11, wherein the speech data includes extracted  
2 speech feature data.

1           18.     The method of claim 11, wherein, adapting the acoustic model for the  
2 client device includes adapting the acoustic model based upon at least one of digitized  
3 raw speech data or extracted speech feature data received from the client device when  
4 there is a network connection between the client device and the server.

1           19.     The method of claim 18, further comprising, storing the adapted acoustic  
2 model.

1           20.     The method of claim 18, wherein the client device downloads and stores  
2 the adapted acoustic model.

1           21.     A system comprising:  
2 a server to couple to a client device having speech recognition functionality, the  
3 client device and server being coupled through a network; and  
4 an acoustic model adaptor locatable at the server to adapt an acoustic model for  
5 the client device.

1           22.     The system of claim 21, wherein the client device is a mobile computing  
2 device.

1           23.     The system of claim 21, wherein the acoustic model adaptor of the  
2     server adapts the acoustic model for the client device based upon at least one of  
3     digitized raw speech data or extracted speech feature data from the client device when  
4     there is a network connection between the client device and the server.

1           24.     The system of claim 23, wherein the server stores the adapted acoustic  
2     model.

1           25.     The system of claim 23, wherein the client device downloads and stores  
2     the adapted acoustic model.

1           26.     A machine-readable medium having stored thereon instructions, which  
2     when executed by a machine, causes the machine to perform the following:

3                 storing a copy of an acoustic model for a client device having speech  
4     recognition functionality;

5                 receiving speech data from the client device; and

6                 adapting the acoustic model for the client device.

1           27.     The machine-readable medium of claim 26, wherein the client device is  
2     a mobile computing device.

1           28.     The machine-readable medium of claim 26, wherein a server stores the  
2     acoustic model for the client device and the client device couples to the server through  
3     a network such that the server receives the speech data from the client device.

1           29.     The machine-readable medium of claim 26, wherein the client device  
2     includes local memory to store digitized raw speech data.

1           30.     The machine-readable medium of claim 26, wherein the client device  
2 includes local memory to store extracted speech feature data.

1           31.     The machine-readable medium of claim 26, wherein the speech data  
2 includes digitized raw speech data.

1           32.     The machine-readable medium of claim 26, wherein the speech data  
2 includes extracted speech feature data.

1           33.     The machine-readable medium of claim 26, wherein, adapting the  
2 acoustic model for the client device includes adapting the acoustic model based upon at  
3 least one of digitized raw speech data or extracted speech feature data received from the  
4 client device when there is a network connection between the client device and the  
5 server.

1           34.     The machine-readable medium of claim 33, further comprising, storing  
2 the adapted acoustic model.

1           35.     The machine-readable medium of claim 33, wherein the client device  
2 downloads and stores the adapted acoustic model.

1           36.     An apparatus comprising:  
2 means for storing a copy of an acoustic model for a client device having speech  
3 recognition functionality; and

4 means for adapting the acoustic model for the client device based upon speech  
5 data received from the client device.

1           37.     The apparatus of claim 36, wherein the client device is a mobile  
2 computing device.

1           38.     The apparatus of claim 36, wherein the means for adapting the acoustic  
2     model for the client device includes adapting the acoustic model based upon at least  
3     one of digitized raw speech data or extracted speech feature data from the client device.

1           39.     The apparatus of claim 38, wherein a server stores the adapted acoustic  
2     model.

1           40.     The apparatus of claim 38, wherein the client device downloads and  
2     stores the adapted acoustic model.